

**TRIANGULAR-SHAPED PLANAR OPTICAL WAVEGUIDE HAVING
REDUCED SCATTERING LOSS**

ABSTRACT OF THE DISCLOSURE

5 A method for forming an optical waveguide is disclosed. The method comprises first forming a lower cladding layer having at least one waveguide support. Next, a core material is formed onto the waveguide support using a high density plasma chemical vapor deposition (HDPCVD) process. Finally, an upper cladding layer is formed over the core material, such that the upper cladding layer
10 and the lower cladding layer surround the core material.